

产品名称: PDHA1 Mouse Monoclonal Antibody
产品货号: AMM82964



产品概述 (Summary)

产品名称 (Production Name)	PDHA1 Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC,ELISA,FC,IP
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG1
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Purified antibody in PBS with 0.05% sodium azide
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PDHA1
别名 (Alternative Names)	PDHA; PDHAD; PHE1A; PDHCE1A
基因 ID (Gene ID)	5160.0
蛋白 ID (SwissProt ID)	P08559.Purified recombinant fragment of human PDHA1(AA: 241-390) expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:50-1:200,ELISA 1:5000-1:20000,FC 1:200-1:400,IP 1:200-1:300
蛋白分子量 (Molecular Weight)	43 kDa

研究背景 (Background)

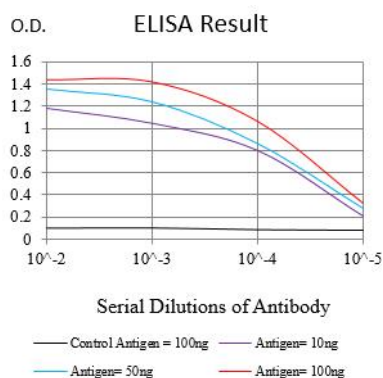
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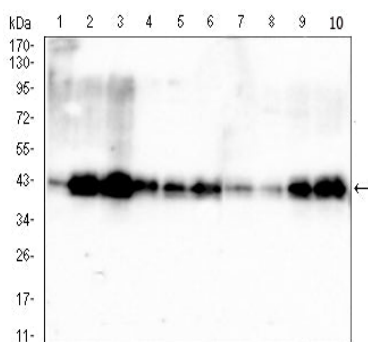
The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

研究领域 (Research Area)

图片 (Image Data)

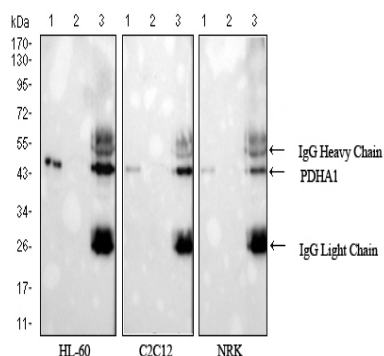


Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

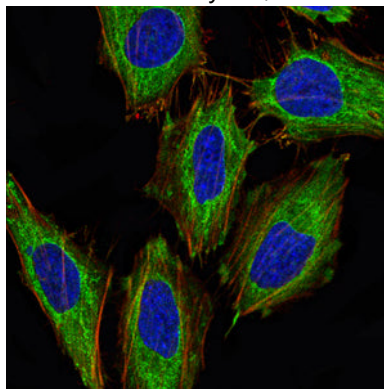


Western blot analysis using PDHA1 mouse mAb against HepG2 (1), HEK293 (2), HL-60 (3), SK-OV-3 (4), PC-3 (5), PANC-1 (6), NRK (7), C2C12 (8), C6 (9) and PC-12 (10) cell lysate.

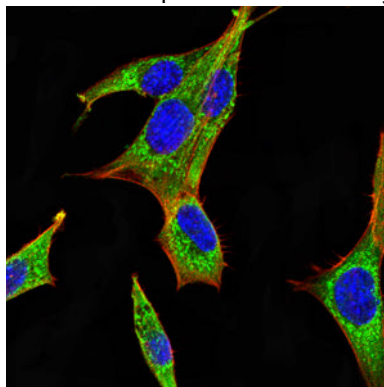
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Immunoprecipitation using PDHA1 mouse mAb(dilution: 1/250) against HL-60, C2C12, and NRK cell lysate. Western blot analysis using PDHA1 mouse mAb, anti-mouse IgG was used as secondary antibody. Lane 1: cell lysate, Lane 2: Normal Mouse IgG instead of PDHA1 mouse mAb IP in cell lysate, Lane 3: PDHA1 mouse mAb IP in cell lysate.

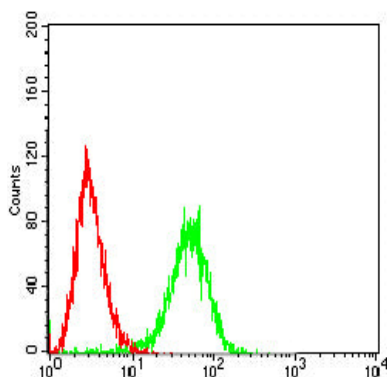


Immunofluorescence analysis of HeLa cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

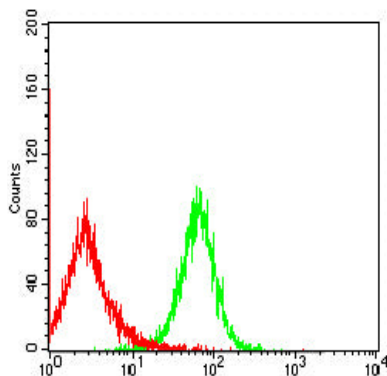


Immunofluorescence analysis of NIH/3T3 cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

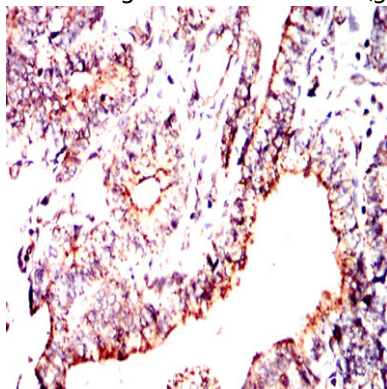
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Flow cytometric analysis of HeLa cells using PDHA1 mouse mAb (green) and negative control (red).

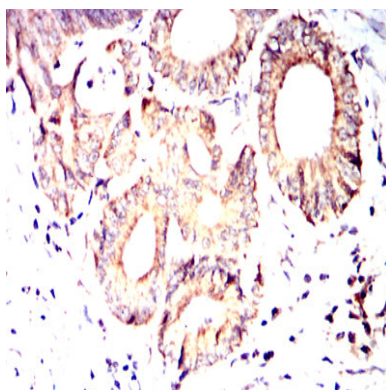


Flow cytometric analysis of Jurkat cells using PDHA1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using PDHA1 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using PDHA1 mouse mAb with DAB staining.

注意事项 (Note)

For research use only .